

NEW DISTRIBUTIONAL RECORDS FOR UTAH SIPHONAPTERA

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Although Chapin's (1919) description of *Ceratophyllus utahensis* (= *C. garci* Rothschild 1902) collected by Alexander Wetmore in 1916 was the first indication of flea work in Utah, Stanford (1931) published the first distributional list of fleas for Utah. A later publication by Stanford (1943) listed twenty-seven genera and forty-six species and subspecies of fleas known to occur within the state. A public health survey conducted by Prince (1943) revealed the presence of two species of two different genera which heretofore were unknown in the state. Hubbard, in his monographic work, "Fleas of Western North America" (1946), lists the above records. Hubbard also records three species, representing two genera, collected by himself, which are new distributional records for the state.

The writer collected extensively in Utah County in central Utah during the summer of 1948 and the winter of 1948-1949 and in southern Utah during the spring and summer of 1949. The following list of new distributional records of fleas in Utah brings the total known species and subspecies to fifty-eight, representing thirty-six genera. Also included in this paper are records of fleas previously known from the state. Unless otherwise indicated, records listed are those of the writer.

NEW DISTRIBUTIONAL RECORDS

1. *Amphalius uccopinus* (Jordan 1925) 2 ♂ ♂
Host: *Ochotona princeps*
Cedar Breaks, Utah
6 August 1949
2. *Dactylopsylla rara* l. Fox 1940 ♀ ♂
Host: *Thomomys* sp.
Cedar Breaks, Utah
6 August 1949
3. *Malareus euphorbi* (Rothschild 1905) 3 ♀ 1 ♂
Host: *Peromyscus maniculatus sonoriensis*
Lehi, Utah
30 October 1948

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4. *Megarthroglossus procus* Jordan and Rothschild 1915 5 ♀ 6 ♂
Host: *Neotoma cinerea* (nest)
Provo, Utah
30 October 1948
5. *Opisodasys pseudarctomys* (Baker 1904) 5♀ 2 ♂
Host: *Glaucomys sabrinus lucifugus*
Aspen Grove (Mt. Timpanogos), Utah
15 August 1948
6. *Rectofrontia fraterna* (Baker 1895) 8 ♀ 2 ♂
Host: *Neotoma cinerea* (nest)
Provo, Utah
6 November 1948
7. *Sternopsylla texana* (C. Fox 1914) 2 ♀
Host: *Myotis californicus*
Delta, Utah
7 July 1949
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ADDITIONAL RECORDS OF FLEAS PREVIOUSLY COLLECTED
IN UTAH

1. *Anomiopsyllus amphibolus* Wagner 1936
Hosts: *Neotoma cinerea*, *N. lepida*
2. *Athyphloceras* sp. (probably *multidentatus*)
Host: *Neotoma cinerea*
3. *Catallagia decepiens* Rothschild 1915
Hosts: *Eutamias quadrivittatus umbrinus*, *Sylvilagus nuttalli*
4. *Cediopsylla inaequalis inaequalis* (Baker 1895)
Hosts: *Sylvilagus nuttalli*, *Lepus californicus*
5. *Ctenophyllus terribilis* (Rothschild 1903)
Host: *Ochotona princeps*
6. *Diamanus montanus* (Baker 1895)
Hosts: *Neotoma cinerea*, *Citellus variegatus*
7. *Epitedia stanfordi* Traub 1944
Hosts: *Peromyscus maniculatus*, *P. truei*, *Onychomys leucogaster*,
Sylvilagus nuttalli
8. *Epitedia vennmani* (Rothschild 1904)
Hosts: *Mus musculus*, *Peromyscus maniculatus*, *Microtus montanus*
9. *Foxella ignota* subsp.
Hosts: *Clethrionomys gapperi galei*, *Thomomys bottae*,
Thomomys talpoides

10. *Foxella ignota utahensis* Wagner 1936
Host: *Thomomys* sp.
11. *Hoplopsyllus anomalus* (Baker 1904)
Host: *Citellus variegatus*
12. *Hystrihopsylla gigas dippei* (Rothschild 1902)
Hosts: *Neotoma cinerea*, *Peromyscus maniculatus*, *Microtus montanus*, *Zapus princeps*, *Tamiasciurus hudsonicus ventorum*
13. *Malareus bitterrootensis* (Dunn 1923)
Host: *Citellus lateralis*
14. *Malareus sinomus* (Jordan 1925)
Hosts: *Peromyscus truei*, *P. maniculatus*, *Perognathus parvus*, *Neotoma* sp., *Peromyscus crinitus*
15. *Malareus telchinum* (Rothschild 1905)
Hosts: *Peromyscus truei*, *P. maniculatus*, *Microtus montanus*
16. *Megabothris abantis* (Rothschild 1905)
Hosts: *Peromyscus maniculatus*, *Microtus longicaudas*, *Clethrionomys gapperi galci*
17. *Megarhroglossus dixius dixius* (Baker 1895)
Host: *Tamiasciurus fremonti*
18. *Meringis parkeri* Jordan 1937
Hosts: *Peromyscus maniculatus*, *Onychomys leucogaster*, *Dipodomys ordii*, *Dipodomys microps*
19. *Micropsylla setilis* (Jordan and Rothschild 1923)
Host: *Peromyscus maniculatus*
20. *Monopsyllus ciliatus kincaidi* Hubbard 1946
Host: *Eutamias quadricittatus umbrinus*
21. *Monopsyllus exilis exilis* (Jordan 1937)
Host: *Onychomys* sp.
22. *Monopsyllus wagneri wagneri* (Baker 1904)
Hosts: *Peromyscus maniculatus*, *Clethrionomys gapperi galci*, *Neotoma lepida*, *Onychomys leucogaster*, *Mus musculus*, *Rattus norvegicus*, *Bubo virginianus*
23. *Myodopsylla gentilis* Jordan and Rothschild 1921
Host: *Myotis californicus*
24. *Odontopsyllus dentatus* (Baker 1904)
Host: *Sylvilagus nuttalli*
25. *Opisodasys keeni* (Baker 1896)
Hosts: *Peromyscus maniculatus*, *P. truei*, *Mus musculus*
26. *Orchopeas caedens caedens* (Jordan 1925)
Host: *Tamiasciurus fremonti*

27. *Orchopeas leucopus* (Baker 1904)
Hosts: *Peromyscus maniculatus*, *Reithrodontomys megalotis*,
Onychomys sp.
28. *Orchopeas sexdentatus agilis* (Rothschild 1905)
Hosts: *Neotoma cinerea*, *N. lepida*, *Peromyscus maniculatus*
29. *Oropsylla idahoensis* (Baker 1904)
Hosts: *Peromyscus maniculatus*, *Citellus armatus*
30. *Peromyscopsylla selenis* (Rothschild 1906)
Host: *Microtus longicaudus*
31. *Phalacroscylla allos* Wagner 1936
Host: *Neotoma cinerea*
32. *Stenistomera alpina* (Baker 1895)
Host: *Neotoma cinerea*
33. *Thrassis gladiolis caducus* (Jordan 1930)
Hosts: *Citellus leucurus*, *Dipodomys ordii*, *Onychomys* sp.
34. *Thrassis howelli utahensis* Wagner 1936
Host: *Marmota flaviventris* ssp.
35. *Thrassis stanfordi* Wagner 1936
Host: *Marmota flaviventris nosophora*

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